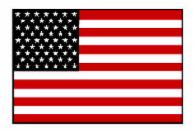
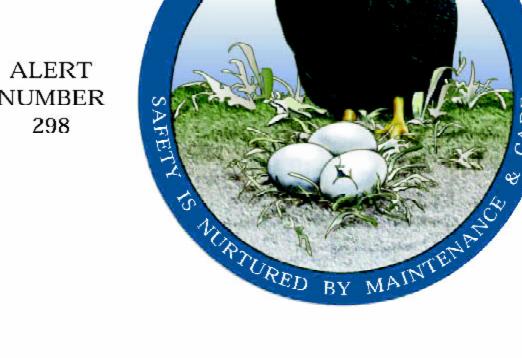




ADVISORY CIRCULAR 43 - 16A

AVIATION MAINTENANCE ALERTS





MAY 2003

NUMBER

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, DC 20590

AVIATION MAINTENANCE ALERTS

The Aviation Maintenance Alerts provide a common communication channel through which the aviation community can economically interchange service experience and thereby cooperate in the improvement of aeronautical product durability, reliability, and safety. This publication is prepared from information submitted by those who operate and maintain civil aeronautical products. The contents include items that have been reported as significant, but which have not been evaluated fully by the time the material went to press. As additional facts such as cause and corrective action are identified, the data will be published in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported via Malfunction or Defect Reports. Your comments and suggestions for improvement are always welcome. Send to: FAA; ATTN: Aviation Data Systems Branch (AFS-620); P.O. Box 25082; Oklahoma City, OK 73125-5029.

UNAPPROVED PARTS NOTIFICATION

UPN NO. 2003-00142

UNAPPROVED PARTS NOTIFICATION

SUSPECTED UNAPPROVED PARTS PROGRAM OFFICE, AVR-20 13873 PARK CENTER ROAD, SUITE 165 HERNDON, VA 20171

No. 2003-00142 March 31, 2003

UPNs are posted on the Internet at http://www.faa.gov/avr/sups/upn.cfm

Published by: FAA, AIR-140, P.O. Box 26460, Oklahoma City, OK 73125

AFFECTED PRODUCTS

All propellers maintained, altered, or approved for return to service by T and W Propellers, Inc. (Chino, CA).

PURPOSE

The purpose of this notification is to advise all aircraft owners, operators, manufacturers, maintenance organizations, and parts distributors regarding propellers maintained by T and W Propellers, Inc. (T and W), 7000 Merrill Avenue, Building E3, #50, Chino, CA 91710. T and W previously held Air Agency Certificate No. T6WR776N.

BACKGROUND

Information received during a Federal Aviation Administration (FAA) accident investigation revealed that T and W had failed to accomplish maintenance in accordance with the manufacturers' maintenance manuals (such as Hartzell Manual 133C, Hartzell Manual 202A, and Hartzell Service Bulletin 136H) or FAA-approved procedures. Improper procedures included failure to perform nondestructive inspections in accordance with FAA-approved procedures. Evidence indicated that T and W installed incorrect hardware and may have falsified work orders and other documentation associated with approving the

propellers for return to service. The FAA has been unable to determine the exact time span during which the improper maintenance occurred. Therefore, all propellers that T and W maintained or approved for return to service from approximately 1997 until 2003 are suspect.

RECOMMENDATION

Regulations require that type-certificated products conform to their type design and be properly maintained using current data, required equipment, and appropriately trained personnel. Aircraft owners, operators, maintenance organizations, and parts distributors should inspect their aircraft, aircraft records, and/or parts inventories for any propeller work accomplished by T and W. If any propellers are installed on aircraft, appropriate action should be taken. If any propellers are found in existing inventory, it is recommended that the propellers be quarantined to prevent installation until a determination can be made regarding each propeller's eligibility for installation.

FURTHER INFORMATION

Further information concerning this investigation may be obtained from the FAA Flight Standards District Office (FSDO) given below. The FAA would appreciate any information concerning the discovery of the above-referenced propellers from any source, the means used to identify the source, and the action taken to remove the propellers from service.

This notice originated from the Riverside FSDO, 6961 Flight Road, Riverside, CA 92504, telephone (909) 276-6701, fax (909) 689-4309; and was published through the FAA Suspected Unapproved Parts Program Office, AVR-20, telephone (703) 668-3720, fax (703) 481-3002.

AIRPLANES

AMERICAN CHAMPION

American Champion Aircraft Corp.; Models 7, 8, and 11; Rudder Control; ATA 2720

An American Champion Aircraft Corporation (ACAC) 7KCAB lost rudder control and departed the runway.

An investigation determined that the rudder pulley assembly, located in the baggage compartment, was missing the pulley guard. The rudder cable dislodged from the pulley, relieving cable tension, and resulted in a loss of rudder control. Further investigation revealed numerous Service Difficulty Reports (SDR) that indicated these and other control-system pulleys might seize causing the control cables to deteriorate and become unserviceable. The majority of the SDRs also reported frayed flap-control cables running over the upper pulleys located in the wing root.

The maintenance manual requires a 100-hour inspection of the control system. Inspectors performing annual/100-hour inspections need to ensure the aircraft is being operated in accordance with an approved type design and place special emphasis in the critical fatigue areas of the control system as established in AC 43.13-1B, Acceptable Methods, Techniques, and Practices - Aircraft Inspection and Repair.

2

BEECH

Beech; Model 400A; Beechjet; Landing Gear Brake System; ATA 3240

The technician received a complaint of unlocked gear indication after gear retraction. He conducted an investigation and discovered the right main landing gear (MLG) was not fully locking in the retracted position due to interference between the strut assembly, brake line clamp (P/N 901-406-3-4A), and adjacent structure. After he repositioned the clamp, the landing gear retraction test was satisfactory.

According to the submitter, the Beech 400A MLG wheel wells are a relatively tight fit. He recommended performing a gear-retraction test whenever maintenance is performed around the strut area.

Part total time unknown.

CESSNA

Cessna; Models 100, 200, 300, and 400 Series Airplanes; Fuel, Oil & Hydraulic Hoses

This article was provided by the FAA Aircraft Certification Office Aircraft, Propulsion and Services (ACE-118W) located in Wichita, Kansas.

The FAA issued Airworthiness Directive (AD) 97-01-13 on certain Cessna Models 100, 200, 300, and 400 series airplanes that were equipped with fuel, oil, and hydraulic hoses shipped from Cessna Parts Distribution between March 28, 1995, and June 28, 1996.

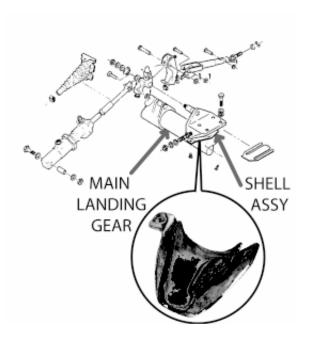
Subsequent to the issuance of AD 97-01-13, the FAA became aware that suspect hoses may have been installed on additional Cessna 200 and 300 Series Airplanes. The FAA initially planned to supersede AD 97-01-13 by the issuance of additional regulatory action. However, it has been determined that enough time has elapsed since the suspect hoses were shipped by Cessna that routine maintenance should have encouraged the replacement of any suspect hoses that might still be in the fleet or available from spares support facilities in the field. Therefore, the FAA is publishing this Alerts Article to advise owners, operators, and repair facilities that any remaining S51-10 hoses shipped by Cessna between March 1995, and June 1996, and possibly installed between March 1995, and February 1997, should by now be removed from service on all Cessna Models 100, 200, 300, and 400 series airplanes.

Cessna; Model P210N; Pressurized Centurion; Main Landing Support; ATA 3230

During an inspection, the technician discovered the left and right main landing gear down-lock support shell bumpers (P/N 1241630-7 left, and P/N 1241630-8 right) had debonded. The bumper edges had curled over preventing the main gear strut from making full-down travel. This condition prevented the main landing gears from properly locking. (Refer to the illustration.)

The submitter believes the composition of the shell bumper material does not have good bonding qualities.

Part total time-137 hours.



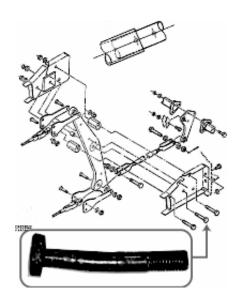
Cessna; Model 340; Elevator Control System; ATA 2730

Five recently processed Malfunction or Defect (M or D) reports cited failure of the elevator bellcrank (P/N 5360801-4) pivot bolt (P/N AN4-14). According to the submitter, one of the five aircraft's elevator bellcrank bolts was broken and the others were bent. He stated the only way to check the condition of the bolt is to loosen the elevator cables and remove the bolt. One bolt was so bent that he had to remove a skin panel on the side of the aircraft in order to drive the bolt out. (Refer to the illustration.)

The submitter feels a few items may be contributing to this defect other than the part's total time. Excess elevator movement may occur when the aircraft sits on the ramp during windy conditions. There are no spacers supporting the sides of the bearing in the center pivot of the bellcrank, which allows side movement and may be a contributing factor to this defect.

The submitter stated the Maintenance Manual does show a spacer between the bellcrank center pivot point, but the Illustrated Parts Catalog (IPC) does not.

Part total time averaged-6,256 hours.



Cessna, Models 300 and 400 series; Cabin Heater Fuel Line; ATA 2140

The following article was submitted by the ACO Manager, Airframe, Propulsion & Services Wichita Aircraft Certification Office, ACE-118W.

Service Difficulty Reports are being received of leaking cabin heater fuel lines on Cessna Models 300 and 400 series aircraft. An example of this is FAA Flight Standards District Office (FSDO) Memorandum dated October 29, 2002. This memo describes a Cessna 414A aircraft, which experienced fire damage to the cabin heater. An investigation showed that the fuel supply line to the cabin heater had a hole in it that allowed fuel to spray on the heater causing a fire.

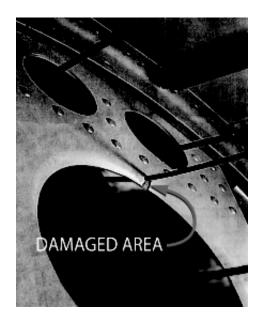
It has been found that cabin heater fuel supply lines on Cessna 300 and 400 series aircraft are susceptible to corrosion and chafing. Cessna provided service bulletin MEB-95-9 dated 6/16/95, which mandates inspection and repair or replacement of corroded lines on Models 310/320/340/411 aircraft. This service bulletin is not effective for 400 series aircraft other than the Model 411.

Since an operator is not required to incorporate a service bulletin to maintain an airworthiness certificate, and all affected aircraft are not covered by the published service bulletin, owners, operators, and maintenance personnel should inspect the cabin heater fuel supply lines (in the cabin and forward to the heater) on all Cessna 300 and 400 series aircraft for corrosion, chafing, and fuel leaks. If corrosion, wear damage, or leaks are found, it is recommended that the fuel line be replaced before further flight. As required by Cessna Service Bulletin MEB-95-9, the noted fuel lines should be re-inspected after every 100 hours of operation or 12 months, whichever occurs first.

LEARJET

Learjet; Model 31; Elevator Control Cable; ATA 2730

During an inspection the technician discovered the left aft elevator control cable (P/N 2300003171) was misrouted and cutting into the structure rib at frame 29 station 541.57. (Refer to the illustration.)



Learjet; Model 35A; Century III; Airfoil Anti-Ice Bleed Air System; ATA 3010

During flight, the crew and passenger noticed a burning odor and haze in the cabin. The pilot diverted the aircraft to an alternate airport for maintenance.

The technician discovered a leak in the bleed-air crossover duct (P/N 2619036-17) for the left wing and stabilizer heat. Further investigation revealed that the gasket (P/N 2619036-1) failed on the crossover duct connection to the cabin heat duct.

Part total time-294 hours.

PIPER

Piper; Model PA 44-180; Seminole; Nose gear Trunnion; ATA 3222

During a takeoff roll and when the aircraft was at about 79 knots, the pilot heard a loud pop and saw a piece of the nose gear fly off the aircraft. He aborted the takeoff. While steering the aircraft back to the ramp, he noticed a difference in the steering.

During an inspection, the technician discovered that the lower rear section of the nose landing gear trunnion assembly had broken off.

The submitter stated that when the section of the trunnion assembly separated, it caused the shimmy dampener shaft to shear, and bent the bracket on the shimmy dampener body. This is the reason the pilot noted a difference in steering the aircraft.

Part total time-1,029 hours.

Piper; Model PA 46-310P; Malibu; Wing Flap Control; ATA 2750

The pilot reported that the aircraft rolled when he selected flaps down.

The technician inspected the system and found the left flap bellcrank (P/N 82905-002) was broken.

According to the submitter, the failed part was previously inspected in accordance with Piper Service Bulletin (S/B) 1062. At the time of the inspection, the aircraft was in compliance with the S/B. The breakage was located in the shaft area of the bellcrank, which was not included in the S/B.

Part total time-3,874 hours.

HELICOPTERS

KAMAN

Kaman; Model HH-43B/F (K-600); Lycoming T-53 turboshaft equipped; RPM Compensator Control Box Assembly; ATA 7600

The pilot entered a flare and encountered a jammed collective at a high power setting.

A post-incident investigation revealed that the four hex head bolts, which secure the RPM compensator assembly control box into the cabin ceiling, had been installed such that each bolt head was at the top of the control box with each threaded bolt end extruding downward through the control box bolt retaining ears. The threaded (nut) ends of all four bolts were observed extending out the bottom of the control box retaining holes such that the threaded end of each bolt faced down, and at least one bolt end was found to interfere with the movement of the RPM compensator telescopic unit clevis.

The maintenance instructions contained in the Type Certificate Holder's Technical Order for the HH-43 covering the removal and installation of the RPM compensator assembly control box were reviewed. (Refer to the illustration.) The installation procedure was described under Section III, paragraph 3-91 (x) as follows:

"Position control box assembly (13) on cabin ceiling and secure with four bolts, eight washers and four nuts."

The Technical Order provided no guidance as to the proper orientation (up or down) for the bolts upon installation and no caution that reverse installation could lead to collective jamming.



Part total time unknown.

AMATEUR, EXPERIMENTAL, AND SPORTAIRCRAFT

FUEL TANKS

The Delegation and Airworthiness Programs Branch (AIR-140) recommended this article.

The pilot of a single-engine experimental amateur-built aircraft was at 2400 feet MSL when he experienced a partial engine failure. Shortly thereafter, the engine became erratic, and then failed completely. The pilot landed in a soybean field.

Investigation disclosed two drilled out rivet heads lodged in the fuel line that had apparently caused fuel starvation and engine stoppage. The aircraft had been in service for approximately three years.

Although the source of the rivet heads is unknown, they may have inadvertently fallen into the open fuel tank filler during construction or maintenance activity. The investigator recommends that experimental aircraft builders consider installing a finger screen at the outlet of the fuel tank. The screen would catch and retain debris before it entered the fuel line. Periodic inspection and cleaning of the finger screen may eliminate debris from the tank preventing it from clogging the fuel line.

AIR NOTES

ELECTRONIC VERSION OF MALFUNCTION OR DEFECT REPORT

One of the recent improvements to the Flight Standards Service Aviation Information Internet web site is the inclusion of FAA Form 8010-4, Malfunction or Defect Report. This web site is still under construction and further changes will be made; however, the site is now active, usable, and contains a great deal of information.

Various electronic versions of this form have been used in the past; however, this new electronic version is more user friendly and replaces all other versions. You can complete the form online and submit the information electronically. The form is used for all aircraft except certificated air carriers who are provided a different electronic form. The Internet address is:

http://av-info.faa.gov/isdr/

When the page opens, select "M or D Submission Form" and, when complete, use the "Add Service Difficulty Report" button at the top left to send the form. Many of you have inquired about this service. It is now available, and we encourage everyone to use this format when submitting aviation, service-related information.

SERVICE DIFFICULTY REPORTING PROGRAM

The objective of the Service Difficulty Reporting (SDR) Program is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products fleet wide. The SDR program is an exchange of information and a method of communication between the FAA and the aviation community concerning inservice problems.

A report is filed whenever a system, component, or part of an aircraft, powerplant, propeller, or appliance fails to function in a normal or usual manner. In addition, if a system, component, or part of an aircraft, powerplant, propeller, or appliance has a flaw or imperfection which impairs, or which may impair its future function, it is considered defective and should be reported under the program.

These reports are known by a variety of names: Service Difficulty Reports (SDR), Malfunction or Defect Reports (M or D) and Maintenance Difficulty Reports (MDR).

The collection, collation, analysis of data, and the rapid dissemination of mechanical discrepancies, alerts, and trend information to the appropriate segments of the FAA and the aviation community provides an effective and economical method of ensuring future aviation safety.

The FAA analyzes SDR data for safety implications and reviews the data to identify possible trends that may not be apparent regionally or to individual operators. As a result of this review, the FAA may disseminate safety information to a particular section of the aviation community. The FAA also may adopt new regulations or issue airworthiness directives (AD's) to address a specific problem.

The primary source of SDR's are certificate holders operating under Parts 121, 125, 135, 145 of the Federal Aviation Regulations, and the general aviation community which voluntarily submit records. FAA Aviation Safety Inspectors may also report service difficulty information when they conduct routine aircraft and maintenance surveillance as well as accident and incident investigations.

The SDR data base contains records dating back to 1974. Reports may be submitted on the Internet through an active data entry form or on hard copy. The electronic data entry form is in the Flight Standards Aviation web site. The URL is: http://av-info.faa.gov>.

A public search/query tool is also available on this same web site. This tool has provisions for printing reports or downloading data.

At the current time we are receiving approximately 45,000 records per year.

Point of contact is:

John Jackson Service Difficulty Program Manager Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125

Telephone: (405) 954-6486

E-Mail address: 9-AMC-SDR-ProgMgr@faa.gov

IF YOU WANT TO CONTACT US

We welcome your comments, suggestions, and questions. You may use any of the following means of communication to submit reports concerning aviation-related occurrences.

Editor: Isaac Williams (405) 954-6488 **FAX:** (405) 954-4570 or (405) 954-4655

Mailing address: FAA, ATTN: AFS-620 ALERTS, P.O. Box 25082,

Oklahoma City, OK 73125-5029

You can access current and back issues of this publication from the internet at: http://av-info.faa.gov. Select the General Aviation Airworthiness Alerts heading.

AVIATION SERVICE DIFFICULTY REPORTS

The following are abbreviated reports submitted between March 26, 2003, and April 22, 2003, which have been entered into the FAA Service Difficulty Reporting (SDR) System data base. This is not an all inclusive listing of Service Difficulty Reports. For more information, contact the FAA, Regulatory Support Division, Aviation Data Systems Branch, AFS-620, located in Oklahoma City, Oklahoma. The mailing address is:

FAA Aviation Data Systems Branch, AFS-620 PO Box 25082 Oklahoma City, OK 73125

These reports contain raw data that has not been edited. If you require further detail please contact AFS-620 at the address above.

FEDERAL AVIATION ADMINISTRATION Service Difficulty Report Data

Sorted by Aircraft Make and Model then Engine Make and Model. This Report Derives from Unverified Information Submitted By the Aviation Community without FAA review for Accuracy.

ACFTMAKE	ENG MAKE	COMPMAKE	PARTNAME	PART CONDITION	DIFF-DATE	TTIME
ACFTMODEL	ENG MODEL	COMPMODEL	PART NUMBER	PART LOCATION	OPER CTRL NO.	TSO
REMARKS						
	CONT		BUSHING	MISMANUFACTURE	11/16/2001	
	A502		SA639193	CRANK C/WEIGHT	2003041000055	
WHILE CHECKIN	NG THE SIZE OF T	HE NEW MFG SA63919	3 BUSHINGS PRIOR TO	O INSTALLATION IN THE CO	UNTERWEIGHTS I FOUN	ID TWO NEW
STANDARD SIZE	BUSHINGS THAT	WERE APPROXIMATE	ELY. 002 SMALL IN THE	E OUTER DIAMETER.		
	CONT		CRANKSHAFT	BROKEN	03/15/2002	
	A75*		A50446	ENGINE	2003041000054	
OWNER COMPL.	AINED ABOUT TH	HE ENGINE KNOCKING	G. BROUGHT ENGINE	TO US FOR INSPECTION. UI	PON DISASSEMBLY WE	FOUND THE
CRANKSHAFT IN	N TWO PIECES. TH	E CRANKSHAFT WAS I	BROKEN BETWEEN TH	E FRONT MAIN JOURNAL AN	D THE NR 4 ROD BEARIN	IG JOURNAL.
ENGINE WAS OF	FRATING ON ALL	TO FUEL ENGINE HAL	D REEN DISASSEMBLE	D FOR REPAIR WORK APPRO	NIMATELY 20 HOURS I	REFORE

CONT **CYLINDER** WORN 03/12/2003 IO550F **ENGINE** 2003041600155 (CAN) ON INSPECTION OF 2 CYLINDERS, 1ST CYLINDER MEASUREMENT OF THE BARREL OF THE CYLINDER VARIES FROM 5, 252' AT THE ENTRANCE OF THE CYLINDER AND 5. 255' AT THE BOTTOM. MAXIMUM LIMITS ARE 5. 256 INCHES. WE DISCOVERED A 'STEP' (SEE PHOTO) AT THE BOTTOM 0.008 DEEP. THIS 'STEP' WAS FORMED BY WHERE THE RINGS STOPPED THEIR TRAVEL. THE EXHAUST VALVE WAS WORN 0.005ON THE STEM. 2ND CYLINDER - THE CYLINDER BARREL MEASUREMENT VARIED FROM 5. 252 TO 5. 259. WE SURPASS THE ALLOWABLE LIMITS ESTABLISHED BY THE MANUFACTURER (5. 256), THE EXHAUST VALVE WAS WORN 0, 007 ON THE STEM A ND IT ALSO HAD A 0, 008 'STEP' AT CRACKED AIRTRC TANK 03/31/2003 AT802 2003041600172 512681 FUEL. (CAN) DURING INSPECTION A CRACK WAS DISCOVERED ON THE FUEL HEADER TANK END PLATE. THE HEADER TANK WAS REMOVED AND REPLACED WITH A NEW PART. AIRCRAFT WAS RETURNED TO SERVICE. CRACKED 02/04/2003 100BEECH PT6A28 11562001025 HORIZONTAL STAB 2003040100437 (CAN) THE HORIZONTAL STABILIZER WAS REMOVED FOR ROUTINE MAINTENANCE. UPON INSPECTION OF THE LT AND RT NR 1 LEADING EDGE RIBS IT WAS NOTED THAT THE LT RIB WAS CRACKED ALONG LOWER FORWARD RADIUS FOR APPROXIMATELY TWO INCHES. THIS AREA IS DIFFICULT TO INSPECT WITH HORIZONTAL STABILIZER INSTALLED AS THE NR 1 RIB IS IN CLOSE PROXIMITY TO THE AIRCRAFT EMPENNAGE AND BEECH PWA CONNECTOR CRACKED 02/27/2003 PT6A67D AUTOFEATHER SYS 2003041500029 1900D 35821511 (CAN) CREW REPORTED THAT AUTOFEATHER DISABLE LIGHT WOULD ILLUMINATE DURING CLIMB AND DECENT PORTIONS OF FLIGHT. MAINTENANCE DID NUMEROUS ATTEMPTS TO DUPLICATE WITH SYSTEM PARTS BEING REPLACED FOR TROUBLESHOOTING PURPOSES. TEST FLIGHTS WHERE COMPLETED WITH THE DEFECT ALSO NOT DUPLICATED. THE PRINTED CIRCUIT BOARD CONNECTOR WAS FOUND TO HAVE A HAIRLINE CRACK AND WAS REPLACED. THE AIRCRAFT HAS FLOWN APPROX. 7 DAYS WITHOUT REOCCURRENCE. BEECH PW A BEARING RACE CRACKED 03/17/2003 PROP BLADE 2003041600118 1900D PT6A67D (CAN) PROP REMOVED DUE TO EXCESSIVE BLADE RADIAL PLUS END PLAY, UPON DISASSEMBLY 2 OPPOSING BLADE BEARING WERE FOUND TO BE CRACKED. HUB FORWARDED TO HARTZELL FOR EVALUATION OF DAMAGE. BEECH FAILED 03/05/2003 200BEECH PT6A41 NLG STEERING 2003041000024 (CAN) NOSE GEAR STEERING FAILED DURING TAXI. THE CREW EXPERIENCED A (THUMP) IN THE RUDDER / STEERING SYSTEM. AFTER THE (THUMP) THE CREW WAS UNABLE TO TAXI THE AIRCRAFT IN A STRAIGHT LINE. INSPECTION REVEALED THAT THE NOSE GEAR STEERING SPRING BUNGEE ASSEMBLY HAD FAILED. FAILURE OCCURRED IN THE SPRING CLIP RETAINING SLOT AREA. SB 2220 DEALS WITH THIS ISSUE. THIS OPERATOR SHALL INITIATE ADDITIONAL INSPECTIONS TO PREVENT REPEAT OCCURRENCES. BEECH PWA**GOVERNOR** INOPERATIVE 01/13/2003 200BEECH PT6A41 8210007 PROPELLER 2003041600082 $(CAN)\ ON\ RETURN\ FLIGHT\ PILOTS\ REPORT\ THAT\ RT\ PROPELLER\ RPM\ STAYED\ AT\ 2100.\ THEY\ WERE\ NOT\ ABLE\ TO\ GOVERN\ PROPELLER\ SPEED.$ AFTER LANDING MAINTENANCE CHECKED THE SYSTEM AND DETERMINED THAT REPLACEMENT OF PROP. GOVERNOR WAS REQUIRED. AFTER REPLACEMENT WITH A SERVICEABLE PART, FUNCTION CHECK WAS COMPLETED AND OPERATION WAS NORMAL. 01/28/2003 CONTROL. 1013800005 LE FLAPS 2003041600086 (CAN) ON APPROACH AIRCRAFT FLAP ASYMMETRY TRIPPED. ON INSPECTION OF FLAP SYSTEM THE L/H OUTBOARD FLAP CABLE DRIVE AT MOTOR FOUND SHEARED. NEW OUTBOARD L/H FLAP CABLE INSTALLED (P/N 101-380000-5). FLAP SYSTEM FUNCTION TEST CARRIED OUT. TESTED OK. BEECH BULKHEAD CRACKED 01/20/2003 10143002115 **FUSELAGE** 2003041600089 (CAN) CREW REPORTED ON LAST LEG TO AIRPORT, LOW PRESSURIZATION OF 3. 2 PSI. DURING TROUBLESHOOTING FOUND A CRACK FOUR INCHES LONG ON BULKHEAD. LOCATION - CENTER OF FUSELAGE AT STATION 227. 125. BEECH **PWA PROPELLER FAILED** 03/07/2003 300BEECH PT6A60A HCB4MP3 2003041600092 (CAN) ON LANDING ON A CLEARED RUNWAY WITH SNOW & ICY PATCHES, SKY CLEAR & WIND CALM, PILOT HAD DIFFICULTY CONTROLLING A/C. AS A/C SLOWED DOWN RUDDER CONTROL BECAME INEFFECTIVE CAUSING A/C TO DRIFT INTO RT SNOW BANK, UPON INVESTIGATING LT PROP, FOUND IN A FINE PITCH POSITION & BLADES WERE BENT BACK 90 DEGREES FROM DIRECTION OF ROTATION, RT PROP BLADES WERE FOUND TO BE 180 DEGREES FROM FEATHERED POSITION & WERE BENT BACK IN DIRECTION OF ROTATION. PROPS WILL BE REMOVED AND FORWARDED TO A PROP OVERHAUL FACILITY WHERE RT PROPELLER WILL BE DISASSEMBLED AND INSPECTED TO SEE IF AN INTERNAL FAILURE RESULTED IN BLADES GOING INTO THIS POSITION CAUSING THE AIRCRAFT TO LOOSE SHORTED BEECH PWA POWER SUPPLY 02/19/2003 2003041500009 A100 PT6A28 PWFLC28 CABIN (CAN) DURING CLIMB, SMOKE WAS NOTICED IN THE CABIN AREA, CABIN FIRE EXTINGUISHER WAS DISCHARGED IN GENERAL AREA OF SMOKE. NO OPEN FLAMES WERE NOTICED. AFTER LANDING MAINTENANCE INVESTIGATED AND FOUND THAT THE SOLID STATE POWER SUPPLY FOR AN OVERHEAD FLUORESCENT LIGHT HAD AN INTERNAL SHORT. THERE WAS NO DAMAGE TO ADJACENT STRUCTURE INSULATION OR WIRING. POWER SUPPLY WAS REPLACED WITH NEW PART. SYSTEM WORKED NORMALLY. INOPERATIVE CONTROL PT6* B200 10138800511 2003041000062 DURING APPROACH TO LANDING AT ABO THE GEAR WOULD NOT EXTEND IN NORMAL OPERATION. LANDING GEAR HYDRAULIC POWER PACK MOTOR WOULD RUN WHEN HANDLE IN DOWN POSITION BUT GEAR WOULD NOT MOVE. EXTENDED GEAR WITH EMERGENCY SYSTEM. INSTALLED NEW SOLENOID VALVE AND GEAR OPERATED NORMALLY. WINDSHIELD CRACKED PT6A60A 101384502522 COCKPIT 2003041000066 CO-PILOT WINDSHIELD CRACKED DURING CRUISE. THIS UNIT WAS INSTALLED ON 01/16/2002 AT 7294. 2 TT A/F. CURRENT INSPECTION REQUIREMENT CALLS FOR A WINDSHIELD SCREW TORQUE CHECK EACH 200 HOURS. OUR EXPERIENCE HAS SHOWN THAT SOON AFTER RETORQUEING THE WINDSHIELD WILL FAIL. SUGGEST THAT MFG MODIFY THE RETORQUE REQUIREMENT AT EACH 200 HOUR. SEIZED BUSHING PT6A21 905240241 **ELEVATOR TRIM** 2003041600136 (CAN) LT & RT ELEVATOR TRIM HORN INNER BUSHINGS HAD TO BE DRIVEN OUT OF INNER BUSHINGS WITH HAMMER AND PUNCH. ONCE REMOVED & MEASURED, INNER BUSHING DIMENSION WAS FOUND TO BE THE SAME AS OUTER BUSHING INNER DIAMETER. THERE WAS NO CORROSION BETWEEN THE 2 BUSHINGS. THIS LEFT A 0 CLEARANCE FIT NOT ALLOWING FREE BEARING MOVEMENT. NEW OUTER & INNER BUSHINGS WERE RECEIVED. NEW OUTER BUSHINGS HAVE A MEASURED INNER DIAMETER. 3735. REMOVED OUTER BUSHING. ID WAS MEASURED AT . 3750. BUSHINGS HAVE BEEN INSTALLED IN ELEVATOR TRIM HORN & INNER BUSHING NOW FREELY ROTATE WITHIN OUTER BUSHING. LT BUSHING LOCATED IN END OF THE ELEVATOR TRIM TAB ACTUATOR ALSO REQUIRED FORCEFUL REMOVAL DUE TO CORROSION.

BEECH C90A	PWA PT6*	ELECTROMECH 903840311	MOTOR 3521000	BURNED VENT BLOWER	04/07/2003 2003041100158	1097
				VENT BLOWER CLEARED T		CABIN AFTER
	· ·			IT FOUND THE MOTOR LOCK		
BEECH	PWA		CHANNEL	CHAFED	02/18/2003	
C90A	PT6A21		504400317	HORIZONTAL STAB	2003041600001	
, ,				ROUTED. INSTEAD OF PASSI		
				IE STRUCTURE. THIS CAUSE		
	. ASSY. WHEN FO IRS PREVIOUSLY		SAWN INTO THE EI	DGE OF THE CHANNEL. THI	E ELEVATOR BELLCRAI	NK HAD BEEN
BEECH	PWA	•	GYRO	FAILED	03/31/2003	
C90A	PT6A21		6226163002	COCKPIT	2003041600002	
(CAN) NR 2 HSl	COMPASS CARD	FAILS TO DISPLAY TR	UE COMPASS HEADIN	IG WITH NO FLAG IN VIEW.	WHEN FAILED THE NR 2	HSI COMPASS
				OZEN ON ONE BEARING. TH		
				VARNING FLAGS OCCUR ON		
				UPPLY FROM PIN 31 OF THE I A HDG WARNING FLAG ON N		
BEECH	PWA	RAYTHN	BUSHING	SEIZED	03/25/2003	econs.
C90A	PT6A21		906100105	CONTROL ROD	2003041600134	
'			,	ORT FOUND TO BE INCORRE		
				D TO CLAMP THE OUTER BUS		
				MMER AND PUNCH. ONCE RI		
BEECH	LYC	SLICK	SHAFT	SHING. THIS LEAVES A ZERO CRACKED	03/20/2003	H DOES NOT
D95A	IO360B1B	BLICK	SIII II I	MAGNETO	2003041600114	
		START. DURING TRO	UBLESHOOTING THE	E MAGNETO WAS REPLACE		TION OF THE
,				AT THE POINT WHERE THE		
			AS NOTICED ON THE C	CAM. WE DON'T SUSPECT THE	E CRACK IN THE SHAFT A	AFFECTED THE
	THE MAGNETO I	EVEN WITH THE	WHEEL	DROVEN	03/20/2003	9197
BEECH E90	PWA PT6*		WHEEL 50300010133	BROKEN MLG	2003041000049	9197
		LED FROM ONE BOLT I		X WALKED ALL THE WAY AR		F. THE WHEEL
AXLE NUT WA	S THE ONLY THIN	G THAT KEPT THE WH	EEL ON THE AXLE. TH	HIS HAPPENED DURING TAX	TO TAKEOFF.	
BEECH	CONT		BUSHING	BROKEN	03/07/2003	
P35	IO470*	E END OF THE WORLD	358100757	WORM	2003041100140	XX THE CHAP
				VERELY WORN AND BROKE ACKED OFF FAR ENOUGH TO		
				BINDING IN THE SECTOR TO		
				OT ALLOW THE GEAR TO BE		
BEECH	CONT		PUMP	SHEARED	03/19/2003	2539
V35	GTSIO520*		414000103	INJECTOR	2003041000041	
•				IAGED. INVESTIGATION REV ED FOD (A SMALL PIECE OF		
				L SYSTEM REVEALED THAT		
				KE ROTOR PINS, HAD FLOWE		
				D BY DAMAGED VANES/ROT	OR. SUBMITTER SURMI	SES THAT THE
	R FAILURE WAS A	ALSO DUE TO FOD FRO		LOW PRESSURE PUMP.		
BELL 206B			SPAR 8644402	CRACKED NLG	03/21/2003 2003041200001	3466
	IN SPAR WER AT	NOSE GEAR SUPPORT		NLG	2003041200001	
BELL	ALLSN	NOSE GEMESCIT ORT	CONTROL UNIT	INTERMITTENT	03/05/2002	
206L	250C20R		6891969	AUTO RELIGHT	2003041000023	
		ATES INTERMEDIATEL				
BELL	ALLSN		STIFFENER	CRACKED	06/21/2002	2587
206L4	250C30	ID WEB CDACKED DIT	206033110239 DING MAINTENANCE	FUSELAGE EVENT. GAINED ACCESS A	2003041100152 ND FOUND PIGHT HAN	D REAM ALSO
				ER DAMAGE. SUGGEST THA		
				HARD LANDING OR IS USED		
MANUFACTUR	ER COULD MODII	FY STIFFENER IN THE C	URVED AREA TO STR	ENGTHEN THE ASSEMBLY.		
BELL	LYC		FITTING	CRACKED	02/21/2003	
222U	LTS101750C1	DED HOUD INCDECTION	222031506103A	BULKHEAD	2003041500007	TO DEDAIL
	ON OF TB 222U-94		JN 270 BULKHEAD	FITTING 222-031-506-103A	WAS FOUND CRACKEL	D. TO REPAIR
BELL	ALLSN	-12.	STUD	CRACKED	03/18/2003	
407	250C47B		407010105101	M/R HEAD	2003041600123	
(CAN) TYPICAI	CRACK FOUND	AT OVERHAUL OF MAI	N ROTOR HEAD.			
BELL			IMPELLER	CRACKED	04/02/2003	
412	IND CDACKED I	NIDING NIDI CDACE	2660162401	COOLER BLOWER EMANATING FROM BLAD	2003041200002 F TIP IMMEDIATELY	ADIACENT TO
				OT. REPLACED WITH NEW	E HF, IMMEDIATELT A	ADJACENT TO
BELL	avi kiivo, EzriEivi	DITO DITORIONI IN DIE	GRIP	CRACKED	02/19/2003	627
47G3B2			R47120252003F	MAINROTOR	2003041000015	
		CK IN THREAD AREA O	F GRIP. BLANCA			TAB
INOPERATIVE	03/01/2003			EV EV L MOD TO S	200204::00:-7	
14193	IM TAD CYCTEM	DECAME DIFFERENCE TO THE	O ODED ATIVE IT PIN	ELEVATOR TRIM	2003041100167	DDICANT IIAF
				DS. IT WAS DETERMINED T SULTED IN AN NONFUNCTIO		
				HED TO AND JUST UNDERNEA		
		USED THE PROBLEM. L				

BLANCA CONT TAB INOPERATIVE 03/01/2003 14193 IO470* ELEVATOR TRIM 2003041100166 ELEVATOR TRIM TAB BECAME TIGHT AND HARD TO USE, AND FINALLY IT BECAME INOPERATIVE, IT IS VERY DIFFICULT TO GET TO THIS PROBLEM, SINCE THE PART CONTAINING THE MOVABLE TRIM TAB IS ENCASED IN A TIGHT TUBE AND IT IS ABOVE THE OVERHEAD AND BELOW THE OUTER FABRIC SKIN OF THE AIRPLANE IN THE COCKPIT **FAULTY** 2003040100171 1741010201 CENTRAL (AUS) NR 1 MULTIPURPOSE CONTROL DISPLAY UNIT (MCDU) FAULTY. INVESTIGATION FOUND AN INTERNAL SHORT CIRCUIT CAUSED BY A LOOSE OBJECT. CESSNA CONTROL. CORRODED 02/11/2003 O200A 0400107104 RUDDER 2003040100336 (CAN) 2 CABLES FOUND CORRODED AND FRAYED AT FUSELAGE STA. 20. 5. BOTTOM OF FORWARD LANDING GEAR BULKHEAD. DEFECT WAS FOUND ON CABLES BECAUSE THEY HAD TO BE REMOVED FOR MAJOR STRUCTURAL REPAIRS. THOSE CABLES RUN ON PULLEYS ATTACHED TO THE BULKHEAD AT THE VERY BOTTOM OF THE FUSELAGE. VERY HARD TO DETECT UNLESS CABLES ARE REMOVED. FUSELAGE BOTTOM USUALLY VERY DIRTY IN THAT AREA WHERE WATER CESSNA BAFFLE **BROKEN** 03/14/2003 12028 172H O300* FUEL CELLS 2003041000035 DURING VISUAL INSPECTION, FOUND FUEL TANK BAFFLE SPOT WELDS BROKEN LOOSE, ALLOWING BAFFLE TO MOVE AROUND FREELY INSIDE FUEL TANK. THIS CONDITION COULD CAUSE FUEL STARVATION DURING A DECENT WITH A LOW FUEL QUANTITY AND COULD CAUSE ERRONEOUS FUEL OUANTITY INDICATIONS DUE TO INTERFERENCE WITH TRANSMITTER FLOAT, PROBABLE CAUSE: THE FRONT FACE OF THE BAFFLE IS APPROXIMATELY I INCH BEHIND FUEL TANK FILLER PORT. DURING THE REFUELING PROCESS, IF THE FUEL NOZZLE IS RELAXED, THE NOZZLE CONTACTS THE BAFFLE AND APPLIES EXCESSIVE PRESSURE TO THE BAFFLE EVENTUALLY BREAKING THE SPOT WELDS LOOSE. DURING THE REFUEL PROCESS, DO NOT INSERT FUEL NOZZLE MORE THAN 3 INCHES INTO THE FUEL TANK. CESSNA LYC TUBE TORN O320E2D WHEEL 2003041600171 0923150 172M (CAN) ON WALK AROUND PILOT NOTICE RT MAIN TIRE FLAT. WHEEL ASSEMBLY REMOVED AND TUBE INSPECTED, TWO TEAR APPROX 1/4 INCH AND APPROX 7 INCHES APART FOUND ON OUTBOARD CENTER SEAM. MICHELIN WAS CONTACTED AND THE FOUR PREVIOUS TUBES WERE SENT TO MICHELIN FOR MORE INSPECTION. TIRE WAS INSPECTED FOR FOREIGN OBJECT AND NO PROBLEM FOUND. CESSNA CRANKSHAFT CORRODED LYC O320D2J LW17071 ENGINE 2003041600158 (CAN) UPON INSPECTION FOR AD 98-02-08 INTERNAL CORROSION. LIGHT SURFACE CORROSION WAS FOUND, WHEN LOG BOOKS CHECKED IT WAS FOUND THAT LYCOMING HAD SIGNED OFF SB530 WHICH A COATING THAT TERMINATES INSP. LYCOMING HAS BEEN CONTACTED AND CORRECTING THE PROBLEM. THIS PROBLEM WAS FOUND DUE AN ERROR IN OUR TRACKING SYSTEM, WHICH SHOWED AD 98-02-08 STILL AS A 5 YEAR INSP. NOTE THE CORROSION FOUND DID NOT REQUIRE THE CRANKSHAFT TO BE REPLACED CESSNA FIREWALL CRACKED 02/14/2003 172R IO360A1A FUSEL AGE 2003041100151 DURING A PHASE I INSPECTION FOUND A CRACK IN THE FIREWALL AT THE LOWER ROW OF RIVETS ATTACHING THE BATTERY BOX TO THE FIREWALL. UPON REMOVAL OF BOX FOR REPAIR FOUND 2ND CRACK UNDER THE OUTBOARD VERTICAL ROW OF RANGE IN MFG SB FIREWALL INSPECTION. CESSNA CARBURETOR INACCURATE 03/14/2003 IO360L2A ENGINE 2003041000043 172R 25765362 THE CREW REPORTED A ROUGH IDLE DURING GROUND OPERATION. THIS ENGINE/AIRCRAFT COMBINATION HAS BEEN THE SUBJECT OF AN AD REGARDING UNSTABLE IDLE/MIXTURE ISSUES. IT IS NOT UNCOMMON FOR THIS SITUATION TO OCCUR NOT ONLY DURING INSPECTION GROUND RUNS, BUT ALSO DURING OPERATION BETWEEN INSPECTIONS. THE IDLE SYSTEM ON THIS FUEL CONTROL UNIT HAS ISSUES, WHERE IT REQUIRES CONSIDERABLE ADJUSTING WITHIN A RELATIVELY FEW NUMBER OF OPERATING HOURS. CESSNA CARBURETOR INACCURATE 03/14/2003 LYC 172R IO360L2A **ENGINE** 2003041000044 25765362 THE CREW REPORTED A ROUGH IDLE DURING GROUND OPERATION. THIS ENGINE/AIRCRAFT COMBINATION HAS BEEN THE SUBJECT OF AN AIRWORTHINESS DIRECTIVE REGARDING UNSTABLE IDLE/MIXTURE ISSUES. IT IS NOT UNCOMMON FOR THIS SITUATION TO OCCUR NOT ONLY DURING INSPECTION GROUND RUNS, BUT ALSO DURING OPERATION BETWEEN INSPECTIONS. THE IDLE SYSTEM ON THIS FUEL CONTROL UNIT HAS ISSUES WHERE IT REQUIRES CONSIDERABLE ADJUSTING WITHIN A RELATIVELY FEW NUMBER OF OPERATING HOURS. CESSNA CARBURETOR INACCURATE 03/17/2003 172R IO360L2A 25765362 ENGINE 2003041000045 THE CREW REPORTED A ROUGH IDLE DURING GROUND OPERATION. THIS ENGINE/AIRCRAFT COMBINATION HAS BEEN THE SUBJECT OF AN AIRWORTHINESS DIRECTIVE REGARDING UNSTABLE IDLE/MIXTURE ISSUES. IT IS NOT UNCOMMON FOR THIS SITUATION TO OCCUR NOT ONLY DURING INSPECTION GROUND RUNS, BUT ALSO DURING OPERATION BETWEEN INSPECTIONS. THE IDLE SYSTEM ON THIS FUEL CONTROL UNIT HAS ISSUES, WHERE IT REQUIRES CONSIDERABLE ADJUSTING WITHIN A RELATIVELY FEW NUMBER OF OPERATING HOURS. CARBURETOR INACCURATE CESSNA LYC 03/22/2003 IO360L2A 2003041000052 172R 25765362 ENGINE DURING PRE TAKEOFF GROUND OPERATIONAL CHECK, THE IDLE SPEED WAS ONLY ABOUT 400 RPM. IT WAS ADJUSTED ALONG WITH THE MIXTURE. THIS ENGINE FUEL CONTROL COMBINATION WAS THE SUBJECT OF AN AIRWORTHINESS DIRECTIVE FOR THIS PROBLEM. THE VARIOUS OTHER COMPONENTS OF THIS FUEL CONTROL SYSTEM ALSO HAVE RELIABILITY ISSUES RANGING FROM SCORING OF THE MIXTURE CONTROL PLATES TO IMPROPER MANIFOLD VALVE OPERATION. OFTEN THE INACCURATE OPERATION OF THIS SYSTEM RESULTS IN AN EXTREMELY RICH MIXTURE WHICH CAUSES MANY SPARK PLUG FOULING PROBLEMS. CESSNA CARBURETOR INOPERATIVE 03/27/2003 IO360L2A 25765362 **ENGINE** 2003041000065 DURING PRE-TAKEOFF CHECK, THE CREW REDUCED THE THROTTLE TO CHECK THE IDLE SPEED. THE ENGINE WOULD ALMOST QUIT EACH TIME IT WAS ATTEMPTED. THIS ENGINE/FUEL CONTROL COMBINATION REQUIRES SUBSTANTIAL ADJUST FOR A VERY FEW HOURS FLOWN. CESSNA CARBURETOR INACCURATE 03/20/2003 IO360L2A 25765362 2003041100002 ENGINE DURING NORMAL OPERATIONS, THE ENGINE WOULD SPUTTER AND RUN VERY IRREGULARLY AT IDLE. AFTER ROUTINE IDLE SPEED/MIXTURE ADJUSTMENT THE ENGINE RAN PROPERLY. THIS ENGINE/FUEL CONTROL COMBINATION REQUIRES ADJUSTMENT OF THE IDLE SPEED/ MIXTURE MORE OFTEN THAN TYPICALLY REQUIRED IN THE GA TYPE CESSNA CONTACTOR FAILED 03/03/2003 ALTERNATOR 2003041000077 X610007 CONTACTOR FAILS DURING USE, DUE TO IT BEING A CONTINUOUS DUTY RELAY, WAS INTERMITTENT PRIOR TO FAILURE. (THIS IS FOR THE ALTERNATOR OUTPUT TO THE AIRCRAFT BATTERY BUSS.)

CESSNA	CONT	BULKHEAD	CRACKED	02/26/2003
180	O470K	071111224	FUSELAGE	2003041500008
	NNUAL INSPECTION, IT WAS DISCOVERE EVIOUS REPAIR REMOVED TO FACILITA			
	ACKS WITHIN A 8 INCH AREA. CRACKS W			
	VERING. BULKHEAD IS BEING	EMETOGRAPH TELLING		Bulleed, to a breet bed to
CESSNA	CONT	BRACKET	CORRODED	10/15/2002
180	O470K	07900065	LT MLG LEG	2003041500017
` '	INSPECTION OUTER GEAR LEG BRACKE IATION. SUSPECT CORROSION INDUCED			
	AUST TO ENTER AND CAUSE CORROSIO		EST ENTERING THEET. GO ISIDE	Vec ver was not seried winer
CESSNA	CONT	HINGE	SEIZED	10/15/2002
180	O470K INSPECTION AILERONS WERE ACTUA'	05238161	AILERON	2003041500129
	AL INSPECTION OF BOTH AILERONS CO			
HINGES INSTAL			WERE BEILED IN BINOT HEE	White the three removes the
CESSNA		BULKHEAD	CRACKED	03/13/2003 4078
182L	AGE BULKHEAD WAS CRACKED IN THE	07126161	DED STOD ATTACHMENT DOING	2003041100157
CESSNA	AGE BULKHEAD WAS CRACKED IN THE	BULKHEAD	CRACKED	03/13/2003 4078
182L		07126161	AFT FUSELAGE	2003041500102
	AGE BULKHEAD WAS CRACKED IN THE F	RADIUS AT THE RUDDE	ER STOP ATTACHMENT POINTS.	BLOCK RUDDER WHEN A/C IS TIED
DOWN IN WIND CESSNA	Y CONDITIONS. CONT	LINE	CHAFED	03/21/2003 12448
1820	O470*	0700099108	FUEL SYSTEM	2003041000050
•	M FUEL SELECTOR VALVE TO FUEL STR			
CESSNA	CONT CARLINGSWTCH	SWITCH	SPARKS	02/12/2003
182Q	O470U AS SEEN COMING FROM THE NAV LIGH	T CUNTON THE CUNTO	LANDING LIGHT	2003040100344
, ,	PPED AFTER APPROXIMATELY 30 SECO			
	CH IS TO BE REPLACED.			
CESSNA	PWA	BRACKET	CRACKED	11/11/2002 4291
208B	PT6* MOTOR CB POPPED WHEN SELECTING	26111441	FLAP MOTOR	2003040100157
	THER MAINT INSP REVEALED FORE AN			
	AFT SUPPORT BRACKET, WAS CRACKED			
	FT SUPPORT BRACKETS, ARE MADE OF			
	NEW PART WAS INSTALLED. DEPLOYN FLAPS TO FULL DOWN IN FLT. THESE H			
CESSNA	PWA	BRACKET	CRACKED	03/18/2003
208B	PT6A114A		EXHAUST	2003041600133
	R INSPECTION REVEALED A CRACKED	EXHAUST SUPPORT I	BRACKET, THE BRACKET WAS	REPLACED AND AIRCRAFT WAS
RETURNED TO S CESSNA	CONT	PROPELLER	FAILED	02/17/2003
2105	IO470S	D3A36C435A	BLADE ANGLES	2003041500013
	NEW PROPELLER STC SA00920CH ON			
INCORRECTLY S ANGLE S.	SET PROP RETURNED TO OBTAIN NEED	DED 2600 RPM ERROR	IN ENGINEERING APPROVAL A	AT MCCAULEY INCORRECT BLADE
CESSNA	CONT	DOWNLOCK	STICKING	02/24/2003
210M	IO520L	S13771	MLG	2003041500107
	LANDING GEAR DOWNLOCK SWITCH S			
	CONT		CRACKED	02/19/2003
310L (CAN) DURING (IO470VO COMPLETE REMOVAL AND NDT OF ALL	504100077 LANDING GEAR PART	MLG S BOTH LT & RT MAIN GEAR PIS	2003041600099 STON AND AXLE ASSEMBLIES (P/N
, ,	041000-76 RESPECTIVELY) WERE FOUNI			`
	HAUSED SERVICEABLE UNIT, HOWEVER			
ONE TO INSTAL CESSNA	L. WE FEEL FINDING A GOOD USED RT U	JNIT ON THE FIRST TR' BELLCRANK	Y WAS JUST A STROKE OF LUCI CRACKED	X. 03/10/2003
3100	IO470VO	59420011	NLG STEERING	2003041600127
	PECTION, FOUND STEERING BELLCRAN			
IS A HEAVIER U				
CESSNA 337G	CONT IO360GB	CONTROL 14601007	FRAYED TE FLAPS	02/27/2003 2003041500126
	103000B 100 HR INSPECTION THE INBOARD RIGH			
(-)	ABLE WAS FOUND FRAYED APPROX. 1 I			
CESSNA	CONT	ROD END	SEPARATED	01/13/2003
340CESSNA	TSIO520K CONTROL SYSTEM ROD END FAULTY.	S29991	MIXTURE	2003040100168
CESSNA	CONTROL STSTEM ROD END FAULTT.	OIL COOLER	CRACKED	02/09/2003
402B	TSIO520E	636900	ENGINE OIL	2003041600081
	OVERED CRACKS DEVELOPING AROUND			DLER. INSTALLATION PROCEDURE
INCLUDING TOF CESSNA	RQUE, AND ALL THE ATTACHING HARD CONT	WARE, WERE CORRECT VENT LINE		09/17/2002
CESSNA 414A	TSIO520*	VENT LINE 51001101	CHAFED LT WING	09/17/2002 2003041100149
	OUT OF LT VENT WHEN TOPPED OFF.			
	RCRAFT HAD RAM WINGLETS INSTALLE			
	, CAUSING LINE TO CHAFF ON FILLER PO ED WHEN FUEL TANKS ARE OPENED, OI			G FOUND. RECOMMEND THIS LINE
10 DE INSPECTI	ED WILEN FUEL TANKS AKE UPENED, OF	N VISUAL INSPECTION	TEROUGE FILLER PURT.	

CESSNA CONT LINE BLOCKED 01/22/2003 GTSIO520H MANIFOLD 2003040100186 421B (CAN) ON GROUND WARM UP AND RUN ALL WAS NORMAL, ON TAKEOFF RT MANIFOLD STAYED AT 28.5 INCHES, ALL OTHER INDICATIONS AND ENGINE FUNCTIONS NORMAL. TAKEOFF ABORTED AND AIRCRAFT RETURNED TO HANGAR, MANIFOLD LINE FOUND BLOCK IN WING SECTION BETWEEN WING AND A/F. MOISTURE REMOVED TESTED FOUND SERVICEABLE. NOTE OUTSIDE AIR TEMP AT -29 DEGREES C AND AIRCRAFT WAS IN HANGAR PRIOR TO FLIGHT. CESSNA STARTER INTERMITTENT GTSIO520L 10357487242 ENGINE 2003040100191 421C (CAN) FLIGHT CREW REPORTED THAT THE RIGHT HAND ENGINE WOULD INTERMITTENTLY 'SHUDDER'. THE FLIGHT CREW SECURED THE ENGINE AND THE AIRCRAFT RETURNED TO BASE UNEVENTFULLY. A DETAILED INSPECTION OF THE ENGINE AND IGNITION SYSTEM REVEALED INSPECTION OF THE ENGINE AND IGNITION SYSTEM REVEALED.THAT THE STARTING VIBRATOR WAS INTERMITTENTLY ACTIVATING. ACTIVATION OF THE STARTER VIBRATOR GROUNDS THE PRIMARY POINTS IN THE MAGNETOS AND UTILIZES THE SECONDARY POINTS IN THE LEFT HAND MAGNETO TO ADVANCE THE TIMING FOR STARTING. THERE HAVE BEEN NO FURTHER REPORTED INSTANCES OF MALFUNCTION SINCE THE STARTING VIBRATOR WAS REPLACED. DELAMINATED CESSNA GARRTT SKIN 01/10/2002 58250057 2003041500069 TPF3318 TE FLAPS (CAN) THE LT INBOARD FLAP WAS DISCOVERED PARTIALLY SEPARATED ON THE TOP SURFACE OF THE COMPOSITE STRUCTURE WHERE A NONCONFORMANCE REPAIR (AS INDICATED IN THE APPLICABLE MANUAL) WAS CARRIED OUT. THIS REPAIR SEEMS TO HAVE BEEN DONE WITHOUT ANY DOCUMENTATION. THE RT INBOARD FLAP IS STARTING TO DELAMINATE, IT HAS NO TRACES OF WORK CARRIED OUT ON THE FLAP SURFACE. THE DELAMINATED SURFACE IS IN THE SAME LOCATION AS THE LT FLAP. CESSNA BELLCRANK CRACKED 02/28/2003 55651012 JT15D1A RT IB FLAP 2003041000032 RIGHT FLAP BELLCRANK FOLLOW-UP ROD ARM ATTACH POINT WAS CRACKED ON UPPER AND LOWER ARM. UPON INSPECTION OF OTHER BELLCRANKS; FOUND THAT SPACERS WERE MISSING BETWEEN FOLLOW-UP ROD-END AND BELLCRANK FOLLOW-UP ARM. CESSNA PW A CRACKED 02/20/2003 ARM COUNTER WEIGHT 2003041600085 IT15D4 556555026 (CAN) DURING ROUTINE MAINTENANCE INSPECTION OF THE CONTROL COLUMN, A CRACK WAS FOUND IN THE BOB WEIGHT ARM NEAR THE HOLE WHERE THE ARM IS ATTACHED TO THE ELEVATOR TORQUE TUBE. BOB WEIGHT ARM CESSNA BEARING FAILED 02/20/2003 550 JT15D4 23080025 STARTER GEN 2003041600096 (CAN) AT FLIGHT LEVEL 33, 000 FT A POPPING SOUND FOLLOWED BY ENGINE VIBRATIONS WAS EXPERIENCED. RT POWER LEVER RETARDED SLOWLY AND VIBRATION LEVEL SOFTENED, BUT, STILL NOTICEABLE, ALL ENGINE PARAMETERS WERE NORMAL AND STEADY. AT 73 PERCENT ON DECENT THROUGH 29000 FT A STRONG VIBRATION BEGAN. THE RT LEVER SET TO 67 PERCENT THE VIBRATION WAS STILL NOTICEABLE. AT 9,000 FT THE POWER LEVER WAS RETARDED TO 58 PERCENT, LANDED AND SHUTDOWN ENGINE, NR 2 STARTER GENERATOR REMOVED DUE TO BEARING CESSNA ANTENNA SEPARATED **PWA** 03/28/2003 550 PW530A VERTICALSTAB 2003041100150 THE HF ANTENNA BROKE OFF DURING FLIGHT, FROM THE VERTICAL STABILIZER TENSION UNIT. THE ANTENNA CABLE SLAPPED AGAINST THE TAILCONE, CHIPPING PAINT. NO STRUCTURAL DAMAGE FOUND. CONT FRAYED 02/20/2003 A185E TSIO520T 051010532 AILERON 2003041600095 (CAN) AILERON DIRECT CABLE FRAYED AT NYLON PULLEYS IN CABIN ROOF AREA OVERHEATED CESSNA 11/28/2002 CONT WIRE A185F IO520D 5136738 RADIO MASTER 2003040100204 (CAN) LUG IMPROPERLY CRIMPED TO WIRE PA-6 AT RADIO MASTER SWITCH CAUSING AN OVERHEAT SITUATION WITH EVENTUAL SEPARATION OF WIRE FROM LUG. WIRE WAS ORIGINAL FROM CESSNA FACTORY INSTALLATION. CESSNA CONT CRACKED 03/19/2003 RIB A185F IO520D 052323178 FLAP TRACK 2003041600126 (CAN) DURING 200 HR INSPECTION THE INBOARD FLAP TRACK BRACKETS FOR THE CLOSING SKIN WHERE FOUND CRACKED. DURING REPLACEMENT OF THESE BRACKETS IT WAS DISCOVERED THAT THE LOWER CORNER OF THE RIBS WHERE ALSO CRACKED. BOTH INBOARD AND OUTBOARD RIBS ON THE FELT INBOARD FLAP TRACK WHERE FOUND CRACKED AND THE INBOARD RIB ON THE RT INBOARD FLAP TRACK WAS FOUND CRACKED, CRACKS MOST LIKELY CAUSED FROM REPEATED CYCLES AND OR HIGH FLAP EXTENSION SPEEDS, NOTE ON THIS AIRCRAFT THE LOWER FLAP SKINS WHERE ALSO CHANGED DURING THIS INSPECTION DUE TO CRACKS IN THE TRAILING EDGE SKINS. CRACKED 02/28/2003 CESSNA CONT HINGE A185F 2003041500127 IO550D 07321014 STABILIZER (CAN) DURING ROUTINE SCHEDULED MAINTENANCE, IT WAS DISCOVERED THAT THE REINFORCEMENTS - STABILIZER HINGE WERE CRACKED. P/N 0732101-4 REPLACED WITH NEW PARTS. LYC SLIP JOINT WORN 01/25/2002 TIO540A11A EXHAUST STACK 12509921 2003041000053 T206H THERE IS AN EXHAUST ELBOW THAT COMES OFF THE WASTEGATE AND RETURNS TO THE TAILPIPE. THIS PIPE HAD WORN NEARLY THROUGH AT THE SLIP JOINT BETWEEN IT AND THE TAIL PIPE. THE TAIL PIPE WAS WORN TO A SHARP EDGE WHERE THE ELBOW ENTERS THE SLIP JOINT. THIS CONDITION WAS NOT VISIBLE UNTIL THE TAILPIPE WAS REMOVED. PROBABLE CAUSE IT THE VIBRATION BETWEEN THE TWO PIPES. THE TAILPIPE NEEDS TO BE REMOVED EVERY 200 HOURS TO INSPECT THIS JOINT FOR DAMAGE. UNDETECTED, THIS EXHAUST PIPE WOULD HAVE FAILED IN A FEW MORE HOURS. THIS FAILURE COULD HAVE CAUSED AN IN-FLIGHT FIRE AND POSSIBLE LOSS OF LIFE. ALTERNATOR CESSNA CONT SEIZED 04/01/2003 TSIO520* E3FF103000AA **ENGINE** 2003041100156 UPON FIRST START OF THE DAY A LOUD SQUEALING NOISE WAS HEARD ALONG WITH WHITE SMOKE EXITING THE COWL FLAPS AND THE PILOT SHUT DOWN ENGINE. UPON REMOVING THE COWLING IT BECAME OBVIOUS THAT THE ALTERNATOR HAD SEIZED AND THAT THE BELT WAS BADLY BURNED. LATER EXAMINATION BY THE MECHANIC REVEALED THAT A DIODE BLOCK SCREW HAD VIBRATED LOOSE AND WEDGED BETWEEN THE ROTOR AND STATOR AFTER SHUT DOWN FROM THE PREVIOUS DAYS FLIGHT. SEATBELT 03/06/2003 INOPERATIVE. 2003041000063 5049074058013 COCKPIT THIS ISSUE INVOLVES SEATBELTS INSTALLED ON AIRCRAFT. THE TENSIONER BAR ON LAP BOLT WILL NOT HOLD TENSION ON BELTS ONCE TIGHTENED, BELTS ARE LOOSENING DUE TO VIBRATION IN FLIGHT, THE TENSION BAR IS SMOOTH, SO IT IS NOT HOLDING TENSION, REDESIGN TENSIONER BAR. CNDAIR CONTROL FAILED 600911787 AILERON 2003041000019 (CAN) AILERON CONTROL JAM. ACTION QRH ESTABLISHED THAT PILOT SIDE WAS OPERATING CHANNEL. CONTROL ON CO-PILOT AILERON, FULL CONTROL FOR AILERON UP. AILERON MOTION FROM APPROX NEUTRAL AND DOWN NON EXISTENT. CONTROL ON CAPTAIN SIDE WAS FULL AND FREE. FOUND RT AILERON QUADRANT AT RT WHEEL WELL, LOWER CONTROL CABLE GUARD PIN LOW CLEARANCE WITH OUADRANT. DAMAGE AT TIP OF THAT GUARD PIN, WHICH WAS MISORIENTED, WAS STOPPING THE MOTION WHEN TRYING TO MOVE AILERON DOWN. NEW GUARD PIN INSTALLED IAW DWG 600-91014 AND BAPS 164-001. NO DAMAGE WAS FOUND AND INTEGRITY OF AILERON CONTROL

SYS WAS CARRIED OUT ON THE RT SIDE, EVERYTHING CHECKED SERVICEABLE. AIRCRAFT WAS RELEASE FOR FLIGHT. NO

CNDAIR	GE	FEEL UNIT	ROUGH	01/22/2003	
CL604	CF343B1	6009230053	PITCH	2003040100189	
	ATED THAT ON TAKEOFF, EXCESSIVE FO				
	EOFF. CREW STATED THAT THE REQUIREI HAT THE FORCE HAD A BREAKAWAY PO				
	ING FREE AND BECAME NORMAL. SUBS				
	CONNECT MECHANISM AND ISOLATE	•			
	ND JERKINESS. BOTH LT AND RT PFS UNI				
ENSTRM 280C	LYC HIO360E1AD	LINE 281210081	BROKEN FUEL SYSTEM	01/04/2002 2003041100147	
	ED INSIDE THE FERRULE ON THE ENGINE				WAS FOUND
	OMPLAINED OF LOW M. A. P. , ABOUT 2 I				
ENSTRM	LYC	LINE	BROKEN	01/04/2002	1650
F28F	HIO360F1AD ED ADJACENT TO FERRULE ON THE ENG	281210081	FUEL PUMP	2003041100148	ETHE DADT
	CRAFT TO PERFORM OTHER MAINTENAN				JI IIIE I AKI
GROB		HORN	LOOSE	02/26/2003	4500
G103A			ELEVATOR	2003041000057	
	SPECTION FOUND ELEVATOR HORN LOC HESE TWO RIBS. THIS IS A VERY SERIOUS				
GROB	ESE I WORLDS. THIS IS A VERT SERIOUS	SKIN	DELAMINATED	02/28/2003	4500
G103A			LTELEVATOR	2003041000058	
	SPECTION, FOUND LEFT ELEVATOR LOW		ED IN TWO PLACES. TOW BLIS'	ΓERS APPROXIMATEL	Y ONE FOOT
GROB	OR WAS REMOVED AND SENT OUT FOR I	REPAIR. SELECTOR	FAILED	03/18/2003	692
G120A		120A6229	FUEL SYSTEM	2003041100165	092
	GRESSIVE INSPECTION, TECH FOUND THI				S INTERNAL
FAILURE.					
GROB G120A	LYC AEIO540D4A5	BEARING 120A4125	FAILED AILERON LEVER	04/07/2003 2003041700182	640
	ESSIVE INSPECTION OF THE AIRCRAFT T				ESTIGATION
	T THE BEARING FROM THE LT AILERO				
	E ANGLE AND THE AMOUNT OF USE OF T				
GROB G120A	LYC AEIO540D4D5	UPLOCK BAD10500	INOPERATIVE MLG	03/17/2003 2003041100164	
	Γ GEAR ON LT SIDE WOULD NOT RELE				PULL G'S TO
	. TROUBLE SHOOT SYSTEM AND FOUND				
	MIT. PROBABLE CAUSE IS DESIGN OF UP				
HUGHES 369D	ALLSN 250C20B	TUBE 369H8407	LEAKING BLEED AIR	02/05/2003 2003040100433	
	START ENGINE. FIRST START OF DAY, C				ATER VALVE
` '	CEABLE HOSE INSTALLED.	TODED HOLLO DILILLE	THE SO SET EMBERY I WHITE TO I	II (OILEI IDE WILLI VIIE)	
LEAR	ALIDSG	TERMINAL	OVERHEATED	02/17/2003	
55LEAR	TFE7313AR IGN FLAW, INSTRUMENT LIGHTING SYS	TB1	EMERGENCY LIGHT	2003040200151	D EOD DASM
, ,	PTOM WAS ADDU LIGHT WOULD GO INT				
	TO RUN STANDBY GYRO. PROBLEM W				
	IGHTING BUS VIA RELAY K2 AND CR4 (
	TIN TURN DROP VOLTAGE LOW ENOUGH OD WAS DONE. MFG WAS NOTIFIED OF P			ED. PROBLEM WENT (JN-NOTICED
LET	SD WAS DONE. WILD WAS NOTHIED OF T	LEG ASSY	BROKEN	03/01/2003	1500
L13BLANIK			MLG	2003041000067	
	OS MLG FORK ASSEMBLY. HAD STRAIGH				
	Γ ANGLE TO PAVED RUNWAY AND CONS Y, HAND PULL GLIDER OVER BUMP.	TANT HITTING OF 2-3	INCHES NEWLY PAVED RUNW.	AY. RECOMMEND TAI	CING OFF ON
MAULE	LYC	CONTROL	WORN	03/07/2003	844
M5235C	O540*	31713	ELEVATOR	2003041000051	
	FOR DOWN CABLE AT F/W BELLCRAN			NT OF CONTACT. FO	UND WHILE
MAULE	TH MFG SB NR 64, DURING ANNUAL INS LYC	FABRIC	FAULTY	01/31/2003	
MX7180	O360C1F	CECONITE101	FUSELAGE	2003040100149	
	E AND EMPENNAGE FABRIC COVERING F				
	LDING THE TAPE BETWEEN THUMB AND				
	GTH. TAPES FROM THE TAILPLANE WER D WAS EXTREMELY BRITTLE AND DID N			OR PENETRATION AND	ADHESION.
MAULE	LYC	BOLT	WRONG PART	01/31/2003	
MX7180	O360C1F			2003040100150	
` '	ORITY OF THE BOLTS USED IN THE AIRCH		OLTS WITH A DRILLED SHANK (COMBINED WITH A SE	LFLOCKING
NUT. UNAPPRO MOONEY	VED PART. PERSONNEL/MAINTENANCE LYC	ERROR. MOUNT	BROKEN	03/16/2003	3432
M20C	O360*	590000509	ENGINE	2003041000037	45
DURING ANNUA	AL INSPECTION AND AD 75-09-08 COMPLI	ANCE, FOUND LOWER	RT CORNER WELD JUNCTION	FULLY BROKEN AND	SEPARATED.
	20-192 HAD NOT BEEN COMPLETED, THA	AT WAS DESIGNED TO	BE PREVENTED BY INSTALLI	NG GUSSET AT THIS O	CORNER (P/N
590041-1). MOUN MOONEY	VT WAS FOR 180 HP ENGINE AND NOT LYC	COUPLING	FAILED	02/25/2003	
M20C	O360*	B10006	MLG MOTOR	2003041000059	
B100-06 RUBBER	R DRIVE COUPLING BETWEEN LANDING	GEAR MOTOR AND TR	ANSMISSION, ABSORBS SHOCK	K WHEN LANDING GEA	
,	THE ONLY CONNECTION BETWEEN TRAN			· · · · · · · · · · · · · · · · · · ·	
	ON, ELECTRICALLY OR MECHANICAL GEAR BACKLASH	LI. KECUMMEND TO	REPLACE EVEKT 200 HOUR	5 TO COINCIDE WITH	n 200 HOUK
	**				

MOONEY LYC CASE CRACKED 03/05/2003 2370 IO360A3B6 IO360A3B6D PROPELLER 2003041000040 M20J 689 AT 689 HOUR TSO OF ENGINE AND 689 HOURS SINCE REMOVAL OF 2 BLADE PROPELLER AND INSTALLATION OF 3 BLADE PROPELLER IAW STC. CASE CRACKED CAUSING AN OIL LEAK. THE CASE WAS NOT REPAIRABLE. 04/01/2003 MOONEY LOOSE IO360A3B6 2003041100146 **ENGINE** AIRCRAFT EXPERIENCED ENGINE FAILURE AFTER TAKE-OFF, PILOT LANDED AIRCRAFT WITH MAIN LANDING GEAR RETRACTED. AIRCRAFT RECEIVED CONSIDERABLE DAMAGE FROM LANDING, ENGINE UPPER COWLING REMOVED FOR INVESTIGATION OF ENGINE FAILURE, DURING INSPECTION OF ENGINE FOUND MAGNETO DISENGAGED FROM ACCESSORY CASE, ALL MOUNTING HARDWARE MISSING. REVIEW OF MAINTENANCE LOGBOOKS REVEALED AD 96-12-07 IMPULSE COUPLING INSPECTION COMPLIED 06 APRIL, 2001. MAGNETO HAS 180. 1 HRS SINCE LAST INSPECTION. OIL CHANGE COMPLETED 27 JANUARY, 2003. **PILATS** PC1245 PT6A67B FLAP SYSTEM 2003041000028 (CAN) AFTER TAKEOFF THE PILOT SELECTED FLAPS UP. A FLAP WARNING LIGHT ILLUMINATED AND THE FLAPS DID NOT MOVE. (FLAPS REMAINED AT 15 DEGREES). THE PILOT RETURNED TO LAND AT THE AIRPORT WITHOUT INCIDENT. A FLAP RESET WAS CARRIED OUT ON THE GROUND SERVICEABLE. GUIDE FAILED 12/12/2002 5322012200 2003041500128 PC1245 PT6A67B MLG (CAN) LOUD UNUSUAL SOUND FROM NOSE GEAR WHEN SELECTED DOWN. - FOUND NOSE GEAR OLEO NOT EXTENDING COMPLETELY. - NOSE LANDING GEAR FORK RUBBED ON NOSE GEAR DOOR ACTUATING ROD. PILATS CHAFED 02/24/2003 PT6A67B BOOST PUMP 2003041600083 (CAN) A FUEL BOOST PUMP WAS REPLACED FOR ITS SCHEDULED OVERHAUL REPLACEMENT AT 3500 HOURS. A WIRE WAS FOUND CHAFED TO BARE WIRE THROUGH ROUGHLY MIDWAY OF THE MANUFACTURER SUPPLIED HARNESS. THIS COULD HAVE THE POTENTIAL TO IGNITE THE FUEL TANK IF SPARKS WERE PRESENT. DUE TO THE LENGTH OF WIRE, IT IS POSSIBLE FOR THE HARNESS TO RUB ON A COUPLE OF DIFFERENT PLACES, IE: BONDING STRAP, RIB, TOP OF PUMP. PILATUS WAS CONTACTED WITH THE PROBLEM AND WE REQUESTED A MEANS TO PROTECT THE HARNESS. PILATS HOSE LEAKING 02/18/2003 PC1245 PT6A67B 5302412123 ANTI ICE SYS 2003041600087 (CAN) EXHAUST STAINING WAS NOTED COMING FROM LT INTAKE LIP DE-ICE AREA, SUBJECT HOSE (SEAL)WAS FOUND TO BE LEAKING WHERE THE LT PIPE COMES DOWN FROM THE EXHAUST STACK AND JOINS WITH THE LIP DEICE PART. HOSE REPLACED WITH NEW. ACTUATOR SEIZED 03/13/2003 PT6A67B PITCHTRIM 2003041600129 PC1245 (CAN) FLIGHT CREW HAD A AUTOPILOT DISCONNECT IN CRUISE FLIGHT THEY SHUT DOWN AUTOPILOT SYSTEM AND CONTINUED FLIGHT HOME, MAINTENANCE TESTED AUTOPILOT SYSTEM AFTER RESETTING C/B AND SYSTEM WORKED AS PER M/M, THEY THEN CARRIED OUT THE TEST ON THE HORIZONTAL STAB TRIM, WHEN THEY GOT TO THE PROCEDURE TO TEST THE ALTERNATE TRIM THEY FOUND IT TO BE U/S. FURTHER INSPECTION REVEALED THAT THE SECONDARY MOTOR WAS SEIZED. A REPLACEMENT UNIT WAS INSTALLED AND TESTED SERVICEABLE. PITCH TRIM ACTUATOR HAD 808. 7 HR S AND 890 CYCLES. THIS IS THE SECOND FAILURE WE HAVE HAD ON THESE UNITS WITH CONNECTOR SHORTED PILATS CSU 2003041600144 (CAN) DURING FLIGHT, PILOT REPORTED THAT NP RPM INDICATION WAS FLUCTUATING. NP WOULD DROP TO AROUND 1620 FOR A FEW SECONDS & THEN IT WOULD RETURN TO IT'S CONSTANT SPEED RANGE OF AROUND 1700. FLUCTUATIONS LASTED FOR ABOUT 20 MINUTES. TORQUE & FUEL FLOW WERE CONSTANT & NO SURGING WAS FELT BY PILOT. PILOT LANDED AT NEAREST AIRPORT. NP INDICATION SYS WAS INSPECTED, & RPM CONNECTOR CLEANED ON CSU. A/C WAS GROUND RUN AND NP INDICATIONS WERE NORMAL AND CONSTANT. A/C RETURNED TO BASE. RETURN FLT, & FURTHER INVESTIGATIONS & GROUNDS RUNS AT BASE, NP SYSTEM FUNCTIONED NORMALLY. AFTER 22 HOURS OF FLIGHT OPERATION, PROBLEM HAS NOT RETURNED. BELIEVE THE PROBLEM WAS RPM CONNECTOR ON CSU, SINCE TUBE CRACKED LYC 03/31/2003 1742002 TIO540C1A MLG 2003041600163 (CAN) THREE CRACKS WERE FOUND ON THE RT MLG OUTBOARD TUBE ASSEMBLY OF THE DRAG LINK FITTING SUPPORT. THE CRACKS ARE LOCATED AROUND THE LOWER MOUNTING BOLT HOLE OF THE TUBE ASSEMBLY, AFTER REMOVAL OF THE DRAG LINK SUPPORT ASSEMBLY, THE FORWARD SUPPORT FITTING WAS FOUND WITH TWO CRACKS ALONG THE EACH SIDE OF THE CASTING SEAM TO THE MOUNTING BOLT PIPER **EXHAUST FAILED** 10/24/2002 NR 3 CYLINDER 2003041100168 O320E2A PA28140 LW19001 A/C EXPERIENCED SUDDEN LOSS OF POWER, LANDED SAFELY ON COUNTRY ROAD. INVESTIGATION FOUND NR 3 CYLINDER LOST 75 PERCENT OF EXHAUST VALVE FACE THAT SUBSEQUENTLY TRAVELED THROUGH THE INDUCTION SYSTEM TO REMAINING CYLINDERS, BROKEN VALVE PARTS FORCED SPARK PLUG TIPS TO CRUSH TO A NO GAP CONDITION. NR 1 CYLINDER HAD BOTH PLUGS CRUSHED, NR 2 HAD ONE PLUG CRUSHED, ENGINE BASICALLY RAN ON 2 CYLINDERS, PN OF VALVE LW OR SL19001, ENGINE REPLACED, TEST RUN OPS REVEALED INADEOUATE COOLING TO THE NR 3 CYL WITH SAME BAFFLING AS FAILED ENG. CHT IND REVEALED TEMPS TO BE ABOVE 420 DEGREE TEMPERATURE DROP IN OPERATION. SUSPECT HIGH CHT TEMP CAUSED SHORT LIFE SPAN OF VALVE. **PIPER** BURNED OUT 02/22/2003 2003041000038 PA28236 GS23614 CABIN SPT GLOW STRIPS, INSTALLED CUSTOMER SUPPLIED ELECTRO LUMINESCENT LAMPS UNDER INSTRUMENT PANEL GLARE SHIELD, WITHIN 25 HOURS OF AIRCRAFT OPERATION, BOTH LIGHT FAILED. DURING INSPECTION OF THE LAMPS, TURNED POWER ON AND BOTH LAMPS SPARKED AND SMOKE CAME FROM AREA OF PLASTIC CONNECTORS. REMOVED BOTH LAMPS. BOTH FAILED IN SAME LOCATION WENT IN MINUTES AFTER INSTALLATION. SUGGEST THESE LAMPS NOT BE USED OR INSTALLED IN ANY AIRCRAFT UNTIL MFG CAN FIND A BETTER CONNECTOR. CARBURETOR SCORED PA28R201 IO360C1C6 ENGINE 2003041000060 2576532 THE CREW REPORTED A ROUGH/IRREGULAR SOUND FROM THE ENGINE IN CRUISE. THE CREW RETURNED TO THE RAMP, IT IS NOT UNCOMMON FOR THIS SITUATION TO OCCUR NOT ONLY DURING INSPECTION GROUND RUNS, BUT ALSO DURING OPERATION BETWEEN INSPECTIONS. A COMMON SOURCE OF PROBLEMS WITH THIS FUEL CONTROL IS THE MIXTURE VALVE. THIS VALVE BECOMES SCORED AND THEN INACCURATE IN ITS FUNCTION. THERE IS A PROCEDURE FOR LAPPING THIS VALVE SURFACE. PIPER LYC CARBURETOR INACCURATE 03/17/2003 PA28R201 IO360C1C6 25765362 ENGINE 2003041000061 THE CREW REPORTED A ROUGH IDLE DURING GROUND OPERATION. THIS ENGINE/AIRCRAFT COMBINATION HAS BEEN THE SUBJECT OF AN AD REGARDING UNSTABLE IDLE/MIXTURE ISSUES. IT IS NOT UNCOMMON FOR THIS SITUATION TO OCCUR NOT ONLY DURING INSPECTION GROUND RUNS, BUT ALSO DURING OPERATION BETWEEN INSPECTIONS. THE IDLE SYSTEM ON THIS FUEL CONTROL UNIT HAS ISSUES, WHERE IT REQUIRES CONSIDERABLE ADJUSTING WITHIN A RELATIVELY FEW NUMBER OF OPERATING HOURS. PIPER LYC PIPER CLAMP BROKEN 03/17/2003 TIO540A2B 2003041600132 TAIL PIPE 557584 (CAN) THE MULTI SEGMENTED CLAMP WAS FOUND TO HAVE FLANGES BROKEN OFF THREE OF THE SEGMENTS. FOR TUNATELY, THE REMAINING SEGMENT HELD THE TAILPIPE IN PLACE.

PIPER	LYC	PLUG	UNDERTORQUED	03/17/2003	60
PA31300	IO540M1A5	STD1339	OIL PUMP BODY	2003041000064	00
	VITH MFG SB 555, OIL PUMP BODY PLU				RETOROUED
	NED TO SERVICE WITHOUT INCIDENT. (
PIPER	PWA	TORQUE TUBE	CORRODED	03/20/2003	12087
PA31T	PT6A28		RUDDER	2003041600128	
	INSPECTION OF THE RUDDER TORQUE	TUBE ASSY FOR CORR			DETERMINED
	QUE TUBE HAD EXTERNAL CORROSION.				
	TREATED. THE AMOUNT OF EXTERNAL				
	COPE WHICH IS NOT CALLED FOR IN TI				
	THE TORQUE TUBE WAS REPLACED WI				
PIPER	LYC	PLACARD	MISMARKED	01/28/2003	_ .
PA32300	IO540K1A5	753690	ENGINE	2003040100332	
	MAGNETO TIMING DIFFERS FROM ENGIN				TE CALLS FOR
	C AND THE AIRFRAME MANUAL SAYS				
	ECT TIMING. WE CONTACTED BOTH TH				
	HE AIRFRAME MANUFACTURER. THEY			ANUTACTORER, ATTA	CHED IS THE
PIPER	TE AIRI KAME MANUFACTURER. THE I	BOLT	SHEARED	04/04/2003	
PA44180		NAS464P427	NLG DRAG LINK	2003041600018	
	NOSE GEAR DRAG LINK BOLT FOUND S				
PIPER	NOSE GEAR DRAG LINK BOLT FOUND S	CONTROL ROD		03/25/2003	2437
			CORRODED		2437
PA60602P	GUDUU TUDE CORRODED CEVERELV	6000050507	RT AILERON	2003041000030	ATTENTON
	SH PULL TUBE CORRODED SEVERELY.	HOLE WORE THROUGH	H. LOCATED BEHIND ENGINE.	RECOMMEND SPECIAL	LATIENTION
	S AREA DURING INSPECTIONS.	LINE	EDOZENI	02/00/2002	
SKRSKY	PWA	LINE	FROZEN	03/08/2003	
S64E	JFTD12A4A	D EXTENSIVE DREVE	P3 SENSING	2003041600173	TED TO I IOIT
	COVERED IN SNOW AND ICE & REQUIRE				
	WAS IN GREEN, A/C LIFTED OFF. APPRO				
	USING BEEPER TRIM FOR EACH ENG, U				
	RELEASED & NR 1 ENG SURGED, OVERS				
	R CONTROL. NR 1 ENG WAS SECURE				DL LINKAGES
	IN ENG P3 SENSE LINE & AN N2 BEEP N				
SNIAS	TMECA	BELT	BROKEN	03/05/2003	
AS350BA	ARRIEL1B	704A33690004	HYD PUMP	2003041000026	
	HE PILOT PERFORMED HIS HYD PRESSU	RE TEST, (HYDRAULIO	C PRESSURE) LIGHT CAME ON.	ON DI THE NIGHT BEI	FORE AND ON
	CIDENT, THE BELT.				
SNIAS	TMECA	BELT	BROKEN	02/21/2003	
AS350BA	ARRIEL1B	704A33690004	HYD PUMP	2003041000072	
, ,	OKE BEFORE TAKE OFF. FOUND TO HAVI				
	OTED THIS TIME, AS IN OTHER TIMES T				Y BOLTS IN.
SNIAS	LYC	BELT	BROKEN	02/26/2003	
AS350D	LTS101600A2	704A33690004	HYD PUMP	2003041000073	
	CENT FOR THE BASE, THE CAUTION H				
	N INSPECTION, HYDRAULIC PUMP BELT	Γ WAS FOUND BROKEN	N, LAYING ON THE TRANSMISS	ION DECK. THE BELT	WAS BROKEN
ATTHE JOINT.					
UNIVAR					
A2AALON	CONT	RIB	CORRODED	03/17/2003	2529
AZAALON	CONT C90*	RIB 41513017R	CORRODED WING	03/17/2003 2003041000048	2529
		41513017R	WING	2003041000048	
LIGHT SURFACE	C90*	41513017R NGS IN CENTER SECTIO	WING DN. BOTTOM SKINS, UNDER SKI	2003041000048 N STIFFENERS, A COUL	
LIGHT SURFACE	C90* E CORROSION FOUND IN BOTH STUB WII	41513017R NGS IN CENTER SECTIO	WING DN. BOTTOM SKINS, UNDER SKI	2003041000048 N STIFFENERS, A COUL	
LIGHT SURFACE RIBS, AND BETY	C90* E CORROSION FOUND IN BOTH STUB WII	41513017R NGS IN CENTER SECTIO 15-1307R INSPECTION	WING ON. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A	2003041000048 N STIFFENERS, A COUL D 2002-26-02.	PLE SPOTS ON
LIGHT SURFACE RIBS, AND BETY UROCOP EC135P1	C90* E CORROSION FOUND IN BOTH STUB WII	41513017R NGS IN CENTER SECTIO 15-1307R INSPECTION INDICATOR L316M30C1003	WING DN. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A INACCURATE TOT	2003041000048 N STIFFENERS, A COUL D 2002-26-02. 04/09/2003 2003041500092	PLE SPOTS ON
LIGHT SURFACE RIBS, AND BETY UROCOP EC135P1	C90* ECORROSION FOUND IN BOTH STUB WII WEEN REAR SPAR AND REAR RIB P/N 4	41513017R NGS IN CENTER SECTIO 15-1307R INSPECTION INDICATOR L316M30C1003	WING DN. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A INACCURATE TOT	2003041000048 N STIFFENERS, A COUL D 2002-26-02. 04/09/2003 2003041500092	PLE SPOTS ON
LIGHT SURFACE RIBS, AND BET UROCOP EC135P1 NR 1 TOT READ	C90* ECORROSION FOUND IN BOTH STUB WII WEEN REAR SPAR AND REAR RIB P/N 4	41513017R NGS IN CENTER SECTIO 15-1307R INSPECTION INDICATOR L316M30C1003 O CARD AVAILABLE. R	WING DN. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A INACCURATE TOT EPLACED WITH SERVICEABLE	2003041000048 N STIFFENERS, A COUL D 2002-26-02. 04/09/2003 2003041500092	PLE SPOTS ON
LIGHT SURFACE RIBS, AND BETY UROCOP EC135P1 NR 1 TOT READ UROCOP EC135T1	C90* ECORROSION FOUND IN BOTH STUB WII WEEN REAR SPAR AND REAR RIB P/N 4	41513017R NGS IN CENTER SECTION 15-1307R INSPECTION INDICATOR L316M30C1003 D CARD AVAILABLE. R MOUNT L633M2010101	WING DN. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A INACCURATE TOT EPLACED WITH SERVICEABLE LEAKING TRANSMISSION	2003041000048 NSTIFFENERS, A COUI D 2002-26-02. 04/09/2003 2003041500092 UNIT. 03/25/2003	PLE SPOTS ON
LIGHT SURFACE RIBS, AND BETY UROCOP EC135P1 NR 1 TOT READ UROCOP EC135T1	C90* E CORROSION FOUND IN BOTH STUB WII WEEN REAR SPAR AND REAR RIB P/N 4 S 800 WHEN ENGINE IS COLD. NO HARE	41513017R NGS IN CENTER SECTION 15-1307R INSPECTION INDICATOR L316M30C1003 D CARD AVAILABLE. R MOUNT L633M2010101	WING DN. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A INACCURATE TOT EPLACED WITH SERVICEABLE LEAKING TRANSMISSION	2003041000048 NSTIFFENERS, A COUI D 2002-26-02. 04/09/2003 2003041500092 UNIT. 03/25/2003	PLE SPOTS ON 19
LIGHT SURFACI RIBS, AND BET UROCOP EC135P1 NR 1 TOT READ UROCOP EC135T1 LEAKING. PIN N	C90* E CORROSION FOUND IN BOTH STUB WII WEEN REAR SPAR AND REAR RIB P/N 4 S 800 WHEN ENGINE IS COLD. NO HARE	41513017R NGS IN CENTER SECTION 15-1307R INSPECTION INDICATOR L316M30C1003 0 CARD AVAILABLE. R MOUNT L633M2010101 PLACED WITH SERVIC	WING DN. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A INACCURATE TOT EPLACED WITH SERVICEABLE LEAKING TRANSMISSION EABLE UNIT.	2003041000048 NSTIFFENERS, A COUL D 2002-26-02. 04/09/2003 2003041500092 UNIT. 03/25/2003 2003041200009	PLE SPOTS ON
LIGHT SURFACI RIBS, AND BETY UROCOP EC135P1 NR 1 TOT READ UROCOP EC135T1 LEAKING. PIN N UROCOP EC135T1	C90* E CORROSION FOUND IN BOTH STUB WII WEEN REAR SPAR AND REAR RIB P/N 4 S 800 WHEN ENGINE IS COLD. NO HARE OT STICKING OUT UNDER A LOAD. RE	41513017R NGS IN CENTER SECTION 15-1307R INSPECTION INDICATOR L316M30C1003 O CARD AVAILABLE. R MOUNT L633M2010101 PLACED WITH SERVIC FIREWALL L713M1051101	WING DN. BOTTOM SKINS, UNDER SKI WAS IN COMPLIANCE WITH A INACCURATE TOT EPLACED WITH SERVICEABLE LEAKING TRANSMISSION EABLE UNIT. CRACKED	2003041000048 NSTIFFENERS, A COULD 2002-26-02. 04/09/2003 2003041500092 UNIT. 03/25/2003 2003041200009 04/09/2003	PLE SPOTS ON 19
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U.S. Department of Transportation

Federal Aviation Administration

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